

What Is Claimed Is:

1. A positioning blade comprising:

a riser mount having a bottom edge surface, a first side edge surface, a second side edge surface, a top edge surface, and including a plurality of first mounting-bores and a plurality of first positioning-bores defined through said riser mount between said edge surfaces;

a clamp mount projecting outwardly from said first side edge surface, and including a plurality of second mounting-bores and a plurality of second positioning-bores defined therethrough, wherein said first positioning-bores comprise a predetermined positional relationship to said second positioning-bores; and

a locator arm projecting outwardly from said second side edge surface and having a plurality of third positioning-bores wherein said third positioning-bores comprise a predetermined position relative to said first positioning-bores and said second positioning-bores.

2. A positioning blade according to claim 1 wherein said riser mount, said clamp mount, and said locator arm are coplanar.

3. A positioning blade according to claim 1 wherein said first positioning-bores and said second positioning-bores are arranged in substantially parallel

relation to one another.

4. A positioning blade according to claim 1 wherein said first positioning-bores and said second positioning-bores are arranged in substantially parallel relation to one another and substantially perpendicular relation to said third positioning-bores.

5. A positioning blade according to claim 1 wherein said riser mount and said clamp mount are rectilinearly shaped wherein said riser mount is positioned below said clamp mount and said locator arm, and said top edge surface is inclined so as to provide a transition between said clamp mount and said locator arm.

6. A positioning blade according to claim 5 comprising a second transition portion interconnecting said riser mount, said clamp mount, and said locator arm.

7. A positioning blade according to claim 1 wherein said first and said positioning-bores are arranged in parallel rows.

8. A positioning blade according to claim 1 wherein each of said first positioning-bores is located at a different, predetermined fixed distance from said bottom edge surface.

9. A positioning blade according to claim 1 wherein each of said first positioning-bores is located at a different, predetermined fixed distance from said bottom edge surface, each of said second positioning-bores is located at a different, predetermined fixed distance from said bottom edge surface, and each of said third positioning-bores is located at a different, predetermined fixed distance from said bottom edge surface.

10. A system for positioning and clamping a workpiece comprising, in combination:

means for clamping said workpiece;

means for elevating said workpiece; and

a positioning blade comprising:

a first mount releasably secured to said means for elevating said workpiece, said first mount having a bottom edge surface, a first side edge surface, a second side edge surface, a top edge surface, and including a plurality of first mounting-bores and a plurality of first positioning-bores defined through said first

mount between said edge surfaces wherein said means for elevating said workpiece is secured to at least two of said first mounting-bores and arranged in a predetermined position by at least one dowel pin extending through said mount and a portion of said means for elevating said workpiece;

a second mount releasably secured to said means for clamping said workpiece, said second mount projecting outwardly from said first side edge surface, and including a plurality of second mounting-bores and a plurality of second positioning-bores defined therethrough, wherein said first positioning-bores comprise a predetermined positional relationship to said second positioning-bores, and further wherein said means for clamping said workpiece is secured to at least two of said second mounting-bores and arranged in a predetermined position by at least one dowel pin extending through said second mount and a portion of said means for clamping said workpiece; and

a locator arm projecting outwardly from said second side edge surface and having a plurality of third positioning-bores wherein said third positioning-bores comprise a predetermined position relative to said first positioning-bores and said second positioning-bores.

11. A system for positioning and clamping a workpiece according to claim 10 wherein said first and said second positioning-bores are accurately sized and shaped, and selectively and precisely located so as to operatively receive said

dowel pins and thereby to selectively and precisely position said blade and said means for clamping on said means for elevating said workpiece.

12. A system for positioning and clamping a workpiece according to claim 10 wherein said blade and said means for elevating said workpiece comprise a height gauge adapted for precisely positioning said means for clamping said workpiece at a predetermined position in space.

13. A system for positioning and clamping a workpiece according to claim 10 wherein said first mount, said second mount, and said locator arm are coplanar.

14. A system for positioning and clamping a workpiece according to claim 10 wherein said second positioning-bores are arranged in substantially parallel relation to one another.

15. A system for positioning and clamping a workpiece according to claim 10 wherein said second positioning-bores are arranged in substantially parallel relation to one another and substantially perpendicular relation to said third positioning-bores.

16. A system for positioning and clamping a workpiece according to claim 10 wherein said first mount and said second mount are rectilinearly shaped and further wherein said first mount is positioned below said second mount and said locator arm, and said top edge surface is inclined so as to provide a transition between said second mount and said locator arm.

17. A system for positioning and clamping a workpiece according to claim 16 comprising a second transition portion interconnecting said first mount, said second mount, and said locator arm.

18. A system for positioning and clamping a workpiece according to claim 10 wherein said first and said positioning-bores are arranged in parallel rows.

19. A system for positioning and clamping a workpiece according to claim 10 wherein each of said first positioning-bores is located at a different, predetermined fixed distance from said bottom edge surface.

20. A system for positioning and clamping a workpiece according to claim 10 wherein each of said first positioning-bores is located at a different, predetermined fixed distance from said bottom edge surface, each of said second

positioning-bores is located at a different, predetermined fixed distance from said bottom edge surface, and each of said third positioning-bores is located at a different, predetermined fixed distance from said bottom edge surface.

21. A kit for forming a variety of fixtures for positioning and clamping a workpiece comprising

a plurality of position determining modules wherein each module comprises a positioning blade comprising:

a first mount releasably secured to said means for elevating said workpiece, said first mount having a bottom edge surface, a first side edge surface, a second side edge surface, a top edge surface, and including a plurality of first mounting-bores and a plurality of first positioning-bores defined through said first mount between said edge surfaces wherein said means for elevating said workpiece is secured to at least two of said first mounting-bores and arranged in a predetermined position by at least one dowel pin extending through said mount and a portion of said means for elevating said workpiece;

a second mount releasably secured to said means for clamping said workpiece, said second mount projecting outwardly from said first side edge surface, and including a plurality of second mounting-bores and a plurality of second positioning-bores defined therethrough, wherein said first positioning-bores comprise a predetermined positional relationship to said second positioning-bores,

and further wherein said means for clamping said workpiece is secured to at least two of said second mounting-bores and arranged in a predetermined position by at least one dowel pin extending through said second mount and a portion of said means for clamping said workpiece; and

a locator arm projecting outwardly from said second side edge surface and having a plurality of third positioning-bores wherein said third positioning-bores comprise a predetermined position relative to said first positioning-bores and said second positioning-bores.